

BIODATA

Name: Dr Anoop S Nair

Designation: Assistant Professor

Department: Chemistry

Address: Ullas, Kuruvikkadu, Vattiyoorkavu P O, Trivandrum – 695013.

Mobile No: 9745702130

E Mail: anoopkkred@yahoo.co.in

Academic Qualification: M.Sc., NET, M. Phil, Ph. D

Experience:

- Teaching: 3.5 Years
- Research: 7.5 Years

Area of Interest/ specialisation: Polymer Chemistry, Drug Delivery, Adsorption, Photocatalysis.

Area of Research: Polymer Chemistry, Drug Delivery

Major/Minor Research Projects: Student Project entitled “Preparation and Characterization of Organic-inorganic Composite Material for the Controlled Release of 5-Fluorouracil” awarded on March, 2022 funded by KSCSTE, Trivandrum for an amount of Rs. 10,000/-

Responsibilities Undertaken (Official): Member of i) Academic and Research Committee, ii) College Development Council, iii) Admission Committee, iv) Digital Committee, and v) Power Committee

Seminars Organised/ Invited Lectures:

- i) ‘CHEMZONE 2019’ –Ozone Day Celebrations 2019 (Co-ordinator) in association with KSCSTE (Sanctioned amount –Rs 10,000/-)
- ii) Ozone Day Celebrations 2021 Co-ordinator) in association with KSCSTE (Sanctioned amount –Rs 10,000/-)

Publications in Journals (Numbers)(Title with page No, Journal, ISSN/ISBN No whether peer reviewed no. of co-authors)

1. Anirudhan, T. S., **Anoop, S. Nair**, Parvathy, J., Extended wear therapeutic contact lens fabricated from timolol imprinted carboxymethyl chitosan-g-hydroxy ethyl methacrylate-g-polyacrylamide as a onetime medication for glaucoma, *European Journal of Pharmaceutics and Biopharmaceutics*, (Elsevier), 109, **2016**, 61-71.
2. Anirudhan, T. S., **Anoop, S. Nair**, Syam, S. Nair., Enzyme coated beta-cyclodextrin for effective adsorption and glucose-responsive closed-loop insulin delivery, *International Journal of Biological Macromolecules*, (Elsevier), 91, **2016**, 818-827.



3. Anirudhan, T. S., **Anoop, S. Nair**, Sabari, J. Bino., Nanoparticle assisted solvent selective transdermal combination therapy of curcumin and 5-fluorouracil for efficient cancer treatment, *Carbohydrate Polymers*, (Elsevier), 173, **2017**, 131-142.
4. Anirudhan, T. S., **Anoop, S. Nair**, Gopika, S. S., The role of biopolymer matrix films derived from carboxymethyl cellulose, sodium alginate and polyvinyl alcohol on the sustained transdermal release of diltiazem, *International Journal of Biological Macromolecules*, (Elsevier), 107, **2018**, 779–789.
5. Anirudhan, T. S., **Anoop, S. Nair**, Temperature and ultrasound sensitive gatekeepers for the controlled release of chemotherapeutic drugs from mesoporous silica nanoparticles, *Journal of Materials Chemistry B*, (RSC), **2018**, 6, 3, 428-439.
6. Anirudhan, T. S., **Anoop, S. Nair**, Deepa, J. R., Silane modified chitosan for efficient loading and controlled transdermal release of diltiazem, *Journal of The Academy of Chemistry Teachers*, (ACT Publication), 2, **2016**, 10-13.
7. Anirudhan, T. S., Parvathy, J., **Anoop, S. Nair**, A novel composite matrix based on polymeric micelle and hydrogel as a drug carrier for the controlled release of dual drugs, *Carbohydrate Polymers*, (Elsevier), 136, **2016**, 1118-1127.
8. Anirudhan, T. S., Parvathy, J., **Anoop, S. Nair**, Evaluation of micellar architecture based on functionalized chitosan for the *in vitro* release of an antibiotic, *Designed Monomers and Polymers*, (Elsevier), 19, **2016**, 99-107.
9. Anirudhan, T. S., Syam, S. Nair., **Anoop, S. Nair**, Fabrication of a bioadhesive transdermal device from chitosan and hyaluronic acid for the controlled release of lidocaine, *Carbohydrate Polymers*, (Elsevier), 152, **2016**, 687-698.
10. Anirudhan, T. S., Deepa, J. R., **Anoop, S. Nair**, Fabrication of chemically modified graphene oxide/nano hydroxyapatite composite for adsorption and subsequent photocatalytic degradation of aureomycin hydrochloride, *Journal of Industrial and Engineering Chemistry*, (Elsevier), 47, **2017**, 415–430.
11. TS Anirudhan, R Suriya, **Anoop S. Nair**, Polymeric Micelle/Nano Hydrogel Composite Matrix as a Novel Multi-Drug Carrier, *Journal of Molecular Structure*, (Elsevier), **2022**, 133265.

Paper Presentations(Number): 47

Seminars Attended : International(No): 16

National: 31

State level: 0

Books Published:

1. Anirudhan, T. S., Parvathy, J., Anoop, S. Nair, Novel pH sensitive composite hydrogel based on functionalized starch/clay for the controlled release of amoxicillin, *Handbook of Composites from Renewable Materials*, (Wiley), 8, 2017.
2. Anirudhan, T. S., Anoop, S. Nair, Deepa, J. R., Chitosan grafted copolymers for drug delivery applications, *Biopolymer Grafting*, (Elsevier), 2016.
3. Sooraj M P, Archana S Nair, Beena Mathew and Sabu Thomas, “Spectroscopic, crystallographic, and thermal characterization of molecularly imprinted polymer composite” (Chapter VI in) *Molecularly Imprinted Polymer Composites Synthesis, Characterisation and Applications*, (Elsevier), 2020.

Articles Published in Magazines (Title with page No editor and publisher ISSN/ISBN no. whether peer reviewed no. of co-authors): Nil

Membership in Professional Bodies

1. Student Representative of Rashtriya Uchatar Shiksha Abhiyan (RUSA) of the University of Kerala chaired by Hon. Vice-chancellor, University of Kerala from January 2017 – March 2018 (UO No. Pl.D/4447/RUSA/2016 dated 19.01.2017)
2. Student Convener to three National Seminars Organized by the Department of Chemistry, University of Kerala

Honours and Awards

1. T. S. Anirudhan, J. Parvathy, Anoop S.Nair, Divya P.L, Nima J, Sheeba Alexander “Cell Proliferation and Controlled Release of Diltiazem Hydrochloride based on Chitosan-g-Oleic Acid and Montmorillonite Hybrids” at National Seminar on “Emerging Trends in Chemical Sciences (ETCS-2013)” organized by the Dept. of Chemistry, University of Kerala on May 2013. (Awarded Best Paper Prize)
2. T. S. Anirudhan, J. Parvathy, Anoop S.Nair “Evaluation of Multiple Drug Release Behaviour of Drugs from a Matrix involving Polymer Micelle of Oleic acid-g-Chitosan and Poly(ethylene glycol)- Poly(vinyl alcohol) Hydrogel” at National Seminar on “Emerging Trends in Polymeric Materials (ETPM 2014)” at Christian College, Chenganoor on January

2014. (Awarded Best Paper Prize)

3. Anoop S Nair, T. S. Anirudhan, “Fabrication of solvent selective nanoparticles from polysaccharides for cost effective skin cancer treatment” at National Seminar on Recent Advances in Chemical Sciences (RACS-2017) organized by Department of Chemistry, University College, Trivandrum In Association with Sesquicentennial Celebrations sponsored by Government of Kerala on March 13-14, 2017. (Awarded Best Paper Prize Award)
4. Anirudhan T S, Anoop S Nair, Chithra Sekhar V, Manasa Mohan A, “Novel Gatekeepers for the Controlled Release of Chemotherapeutic Drugs from Mesoporous Silica” at National Seminar on Advanced Materials (NSAM 2017) organized by the Department of Chemistry, University of Kerala, Kariavattom in association with School of Physical and Mathematical Sciences on October 4th, 2017. (Awarded Best Paper Prize Award)